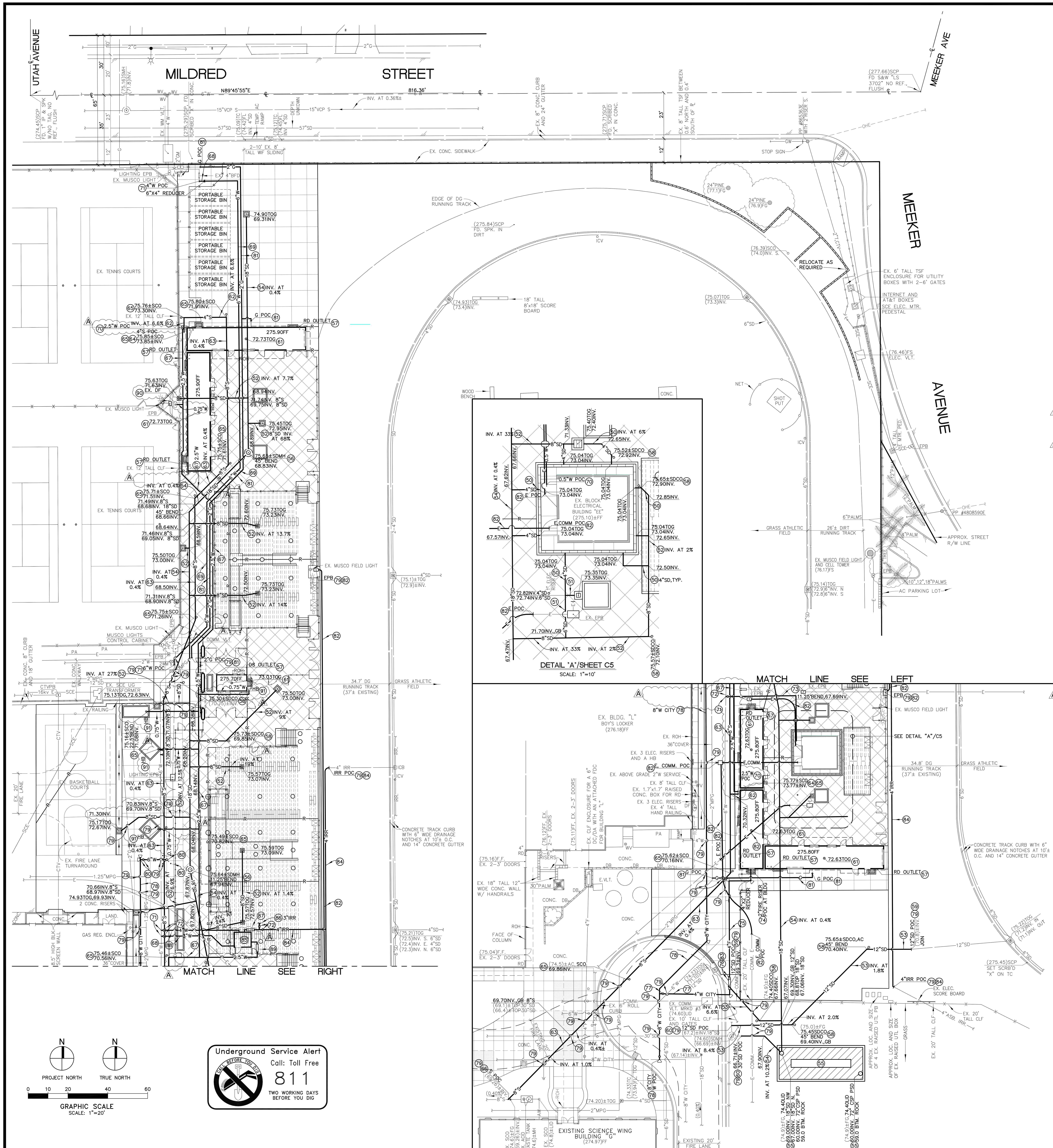

STORM DRAIN AND UTILITY PLAN CONSTRUCTION NOTES

(50) INSTALL 4" DIAMETER SDR26 P.V.C STORM DRAIN PIPE AND FITTINGS. CONSTRUCT TRENCH FOR PIPE PER DETAIL "C" SHOWN ON SHEET C8.

(51) INSTALL 6" DIAMETER SDR26 P.V.C STORM DRAIN PIPE AND FITTINGS. CONSTRUCT TRENCH FOR PIPE PER DETAIL "C" SHOWN ON SHEET C8.

(52) INSTALL 8" DIAMETER SDR26 P.V.C STORM DRAIN PIPE AND FITTINGS. CONSTRUCT TRENCH FOR PIPE PER DETAIL "C" SHOWN ON SHEET C8.

(53) INSTALL 12" DIAMETER SDR26 P.V.C STORM DRAIN PIPE AND FITTINGS. CONSTRUCT TRENCH FOR PIPE PER DETAIL "C" SHOWN ON SHEET C8.

(54) INSTALL 18" DIAMETER HDPE STORM DRAIN PIPE AND FITTINGS. CONSTRUCT TRENCH FOR PIPE PER DETAIL "C" SHOWN ON SHEET C8.

(55) CONSTRUCT A 72" DIAMETER CORRUGATED STEEL PIPE PERFORATED STORM DRAIN UNDERGROUND RETENTION INFILTRATION TRENCH SYSTEM PER DETAIL "D" SHOWN ON SHEET C8. BURY RISER MANHOLE LIDS 6" BELOW GRADE OF PLAYFIELD.

(56) CONSTRUCT A PRECAST CONCRETE STORM DRAIN MANHOLE PER SPPWC STANDARD PLAN 200-3 AND 210-3 SHOWN ON SHEET C10 MODIFIED FOR A FLAT BOTTOM WITH NO CHANNELS.

(57) MODULAR BUILDING ROOF DRAIN OR DOWNSPOUT TO SPLASH 6" ABOVE GRADE PER SEPARATE DRAWINGS.

(58) INSTALL SINGLE WYE STORM DRAIN CLEANOUT ASSEMBLY PER DETAIL "A" SHOWN ON SHEET C8.

(59) CONNECT NEW STORM DRAIN PIPE TO AN EXISTING PRIVATE STORM DRAIN PIPE WITH ALL REQUIRED FITTINGS AND A CONCRETE COLLAR PER SPPWC STANDARD PLAN 380-4 SHOWN ON SHEET C10. CONFIRM LOCATION, SIZE, MATERIAL, AND ELEVATION PRIOR TO INSTALLING ANY NEW SITE STORM DRAIN PIPE.

(60) CORE DRILL THROUGH STORM DRAIN PIPE OR FITTING FOR THE NEW SITE STORM DRAIN PIPE CONNECTION. PROVIDE A TIGHT SEAL BETWEEN THE PIPES AND BACKFILL WITH CONCRETE SLURRY.

(61) INSTALL A SMALL DRYWELL UNDER THE NEW MODULAR BUILDING PER DETAIL "E" SHOWN ON SHEET C8.

(62) INSTALL 4" DIAMETER SDR26 P.V.C. SANITARY SEWER PIPE AND FITTINGS. CONSTRUCT TRENCH FOR PIPE PER DETAIL "C" SHOWN ON SHEET C8.

(63) INSTALL 8" DIAMETER SDR26 P.V.C. SANITARY SEWER PIPE AND FITTINGS. CONSTRUCT TRENCH FOR PIPE PER DETAIL "C" SHOWN ON SHEET C8.

(64) CONNECT NEW SITE SEWER PIPE TO BUILDING SEWER AT A POINT 5 FEET FROM THE BUILDING PER DETAILS SHOWN ON THE ARCHITECTURAL PLUMBING PLANS. CONFIRM LOCATION, SIZE AND ELEVATION PRIOR TO INSTALLING ANY NEW SITE SEWER PIPE.

(65) INSTALL SINGLE-WYE SANITARY SEWER CLEANOUT ASSEMBLY PER DETAIL "B" SHOWN ON SHEET C8.

(66) CONNECT NEW SEWER PIPE TO AN EXISTING PRIVATE SEWER PIPE WITH ALL REQUIRED FITTINGS. CONFIRM LOCATION, SIZE AND ELEVATION PRIOR TO INSTALLING ANY NEW SITE SEWER PIPE.

(67) INSTALL 2.5" DIAMETER SCHEDULE 80 OR SDR21 P.V.C. WATER PIPE AND FITTINGS. CONSTRUCT TRENCH FOR PIPE PER DETAIL "C" SHOWN ON SHEET C8.

(68) INSTALL 4" DIAMETER SCHEDULE 80 OR SDR21 P.V.C. WATER PIPE AND FITTINGS. CONSTRUCT TRENCH FOR PIPE PER DETAIL "C" SHOWN ON SHEET C8. CONSTRUCT CONCRETE THRUST BLOCKS PER DETAIL "B" SHOWN ON SHEET C9.

(69) INSTALL 6" DIAMETER C900 CLASS 200 P.V.C. WATER PIPE AND FITTINGS. CONSTRUCT TRENCH FOR PIPE PER DETAIL "C" SHOWN ON SHEET C8. CONSTRUCT CONCRETE THRUST BLOCKS PER DETAIL "B" SHOWN ON SHEET C9.

(70) CONNECT SITE WATER PIPE TO BUILDING WATER AT A POINT 5 FEET FROM THE BUILDING. CONFIRM LOCATION, SIZE AND ELEVATION PRIOR TO INSTALLING ANY NEW SITE WATER PIPE. INSTALL SHUT OFF BALL VALVE WITH A GALVANIZED CAN ASSEMBLY AND A VANDAL PROOF GALVANIZED ACCESS LID MARKED "WATER" AT GRADE PER DETAILS SHOWN ON THE ARCHITECTURAL PLANS.

(71) CONNECT NEW WATER PIPE TO AN EXISTING PRIVATE WATER PIPE. CONTRACTOR TO CONFIRM LOCATION, SIZE AND ELEVATION PRIOR TO INSTALLING ANY NEW SITE WATER PIPE.

(72) INSTALL A PRIVATE WATER GATE VALVE MATCHING THE SAME SIZE AS THE PIPE DIAMETER WITH A GALVANIZED VALVE CAN ASSEMBLY AND A VANDAL PROOF GALVANIZED ACCESS LID MARKED "WATER" AT GRADE.

(73) INSTALL 0.5" DIAMETER SCHEDULE 80 OR SDR21 P.V.C. WATER PIPE AND FITTINGS. CONSTRUCT TRENCH FOR PIPE PER DETAIL "C" SHOWN ON SHEET C8.

(74) CONNECT NEW SITE FIRE LINE PIPE TO BUILDING FIRE LINE AT A POINT 5 FEET FROM THE BUILDING. CONFIRM LOCATION, SIZE AND ELEVATION PRIOR TO INSTALLING ANY NEW SITE FIRE LINE PIPE. REFER TO DETAIL "A" SHOWN ON SHEET C9.

A (75) INSTALL 4" DIAMETER C900 CLASS 200 P.V.C. WATER FIRE LINE AND DUCTILE IRON FITTINGS TO WITHIN 5 FEET OF THE BUILDING. DUCTILE IRON FITTINGS TO BE FLANGE OR MECHANICAL JOINT WITH MEGALUG THRUST RESTRAINT. CONSTRUCT TRENCH FOR PIPE PER DETAIL "C" SHOWN ON SHEET C8. CONSTRUCT CONCRETE THRUST BLOCKS PER DETAIL "B" SHOWN ON SHEET C9. MINIMUM PIPE COVER SHALL BE 30" IN NON-TRAFFIC AREAS AND 36" IN TRAFFIC AREAS PER N.F.P.A. 24 SECTION 8.1. THE FIRE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING/CONFIRMING THE SIZE OF THE LINE.

A (76) INSTALL CITY 4" DIAMETER FIRE SERVICE DC/DA BACKFLOW PREVENTOR WITH AN ATTACHED FIRE DEPARTMENT CONNECTION PER CITY OF EL MONTE WATER STANDARD DWG. NO. W-8 AND W-17 SHOWN ON SHEET C9. INSTALL TAMPER FLOW SWITCH TO DOUBLE DETECTOR CHECK VALVE SERVICE ASSEMBLY AND CONNECT WITH FIRE ALARM PANEL IN BUILDING PER N.F.P.A. 13 AND N.F.P.A. 24 STANDARDS AND SPECIFICATIONS AND THE REQUIREMENTS OF THE LOCAL FIRE MARSHAL. FINAL LOCATION AND ALL INSTALLATION DETAILS TO BE PREPARED AND SUBMITTED BY THE FIRE SPRINKLER SUBCONTRACTOR TO THE ARCHITECT AFTER APPROVAL BY THE LOCAL FIRE MARSHAL. ALL WORK TO BE DONE PER N.F.P.A. 13 AND N.F.P.A. 24 STANDARDS AND SPECIFICATIONS AND THE REQUIREMENTS OF THE LOCAL FIRE MARSHAL. THE FIRE SPRINKLER CONTRACTOR SHALL BE RESPONSIBLE FOR CONFIRMING/DETERMINING THE SIZE OF THE FIRE SERVICE ASSEMBLY AND THE LOCATION OF ALL PIPING AND RELATED FACILITIES PRIOR TO INSTALLATION. NO WORK SHALL COMMENCE UNTIL AN ENCROACHMENT PERMIT IS OBTAINED BY THE CONTRACTOR FROM THE CITY OF EL MONTE WATER DEPARTMENT.

(77) CONNECT TO THE EXISTING 8" DIAMETER CITY WATER MAIN WITH ALL REQUIRED FITTINGS AND INSTALL A 4" DIAMETER WATER VALVE AND CAN ASSEMBLY PER CITY OF EL MONTE WATER STANDARD DRAWING NO. W-11 AND W-12 SHOWN ON SHEET C9. INSTALL 4" DIAMETER C900 CLASS 200 P.V.C. PUBLIC WATER LINE AND DUCTILE IRON FITTINGS PER CITY OF EL MONTE WATER STANDARD DRAWING NO. W-8 SHOWN ON SHEET C9. DUCTILE IRON FITTINGS TO BE FLANGE OR MECHANICAL JOINT WITH MEGALUG THRUST RESTRAINT. CONSTRUCT CONCRETE THRUST BLOCK PER DETAIL "B" SHOWN ON SHEET C9. CONSTRUCT TRENCH FOR PIPE PER DETAIL "C" SHOWN ON SHEET C8. MINIMUM PIPE COVER SHALL BE 36" IN TRAFFIC AREAS PER N.F.P.A. 24 SECTION 8.1. THE FIRE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING/CONFIRMING THE SIZE OF THE LINE. NO WORK SHALL COMMENCE UNTIL AN ENCROACHMENT PERMIT IS OBTAINED BY THE CONTRACTOR FROM THE CITY OF EL MONTE WATER DEPARTMENT.

(78) CONNECT TO THE EXISTING 8" DIAMETER CITY WATER MAIN WITH ALL REQUIRED FITTINGS AND INSTALL AN 8" DIAMETER WATER VALVE AND CAN ASSEMBLY PER CITY OF EL MONTE WATER STANDARD DRAWING NO. W-11 AND W-12 SHOWN ON SHEET C9. INSTALL 8" DIAMETER C900 CLASS 200 P.V.C. PUBLIC WATER LINE AND DUCTILE IRON FITTINGS PER CITY OF EL MONTE WATER STANDARD DRAWING NO. W-8 SHOWN ON SHEET C9. DUCTILE IRON FITTINGS TO BE FLANGE OR MECHANICAL JOINT WITH MEGALUG THRUST RESTRAINT. CONSTRUCT CONCRETE THRUST BLOCK PER DETAIL "B" SHOWN ON SHEET C9. CONSTRUCT TRENCH FOR PIPE PER DETAIL "C" SHOWN ON SHEET C8. MINIMUM PIPE COVER SHALL BE 36" IN TRAFFIC AREAS PER N.F.P.A. 24 SECTION 8.1. THE FIRE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING/CONFIRMING THE SIZE OF THE LINE. NO WORK SHALL COMMENCE UNTIL AN ENCROACHMENT PERMIT IS OBTAINED BY THE CONTRACTOR FROM THE CITY OF EL MONTE WATER DEPARTMENT.

(79) CONTRACTOR SHALL POTHOLE ALL EXISTING STORM DRAIN AND UTILITY PROPOSED POINTS OF CONNECTION AND ALL EXISTING STORM DRAIN AND UTILITY CONFLICTS WITH PROPOSED PIPING TO VERIFY LOCATION SIZE, ELEVATION AND TYPE OF PIPE MATERIAL PRIOR TO INSTALLING ANY NEW UTILITY OR STORM DRAIN PIPE IN ORDER TO RESOLVE ANY AND ALL POTENTIAL CONFLICTS WITH THE PROPOSED PIPE. RELOCATE EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED PIPE PER CURRENT CODE.

(80) INSTALL 6"x4"x2.5" PUBLIC FIRE HYDRANT PAINTED YELLOW AND A 6" DIAMETER GATE VALVE PER CITY OF EL MONTE STANDARD DRAWING NO. W-10 SHOWN ON SHEET C9. INSTALL 4 BOLLARDS 3 FEET EVENLY SPACED AWAY FROM THE FIRE HYDRANT PER CITY OF EL MONTE STANDARD DRAWING NO. W-13 SHOWN ON SHEET C9.

(81) INSTALL NATURAL GAS SITE PIPE, PRESSURE REGULATORS, AND RELATED IMPROVEMENTS PER CURRENT CODE. CONNECT TO NEW BUILDING PER DETAILS SHOWN ON THE MODULAR BUILDING AND ARCHITECTURAL PLUMBING PLANS PREPARED BY OTHERS.

(82) INSTALL ELECTRIC, COMMUNICATION, CABLE TELEVISION, AND FIRE ALARM SITE ~~REPLACEMENT CONDUIT, WIRING, AND PULL~~ BOXES, AND RELATED IMPROVEMENTS TO MATCH EXISTING PER CURRENT CODE. SEE MEP DRAWINGS FOR MORE DETAILS. A

A (83) CONSTRUCT A CHAIN LINK FENCE ENCLOSURE OVER AND AROUND THE NEW 4" DIAMETER DC/DA WITH AN ATTACHED FIRE DEPARTMENT CONNECTION (FDC) TO MATCH THE EXISTING CONDITION IN FRONT OF BUILDING "L". PROVIDE A 3' WIDE LOCKABLE MANGATE AND A HOLE IN THE FENCE OPPOSITE THE FDC NOZZLES FOR FIRE DEPARTMENT ACCESS.

(84) INSTALL 4" DIAMETER SCHEDULE 80 OR SDR21 P.V.C. IRRIGATION PIPE AND FITTINGS PER CURRENT CODE. CONSTRUCT TRENCH FOR PIPE PER DETAIL "C" SHOWN ON SHEET C8. CONSTRUCT CONCRETE THRUST BLOCKS PER DETAIL "B" SHOWN ON SHEET C9.

(85) ~~CONSTRUCT AN IRRIGATION PUMP HOUSE REPLACEMENT BUILDING WITH INTERIOR AND EXTERIOR PIPING,~~ IRRIGATION CONTROLLER RELOCATION, ~~AND PUMPS PER DESIGN PLANS PREPARED BY THE ARCHITECT AND PLUMBING ENGINEER.~~ REFER TO LANDSCAPE/IRRIGATION DRAWINGS FOR CONSTRUCTION OF UNDERGROUND IRRIGATION LINES. A

(86) INSTALL 3" DIAMETER SCHEDULE 80 OR SDR21 P.V.C. IRRIGATION PIPE AND FITTINGS PER CURRENT CODE FROM THE PUMP HOUSE NORTHWESTERLY TO A POINT NEAR THE SOUTHEAST CORNER OF THE TENNIS COURTS AT A POINT OF CONNECTION WITH THE IRRIGATION MAIN LINE THAT SERVICES THE TURF ATHLETIC FIELDS WEST OF THE TENNIS COURTS. CONSTRUCT TRENCH FOR ~~PIPE PER DETAIL "C" SHOWN~~ ON SHEET C8. CONSTRUCT CONCRETE THRUST BLOCKS PER DETAIL "B" SHOWN ON SHEET C9. REFER TO SHEET L-1.0. A

(87) INSTALL A SALVAGED BOOSTER PUMP AND BACKFLOW PREVENTER FOR IRRIGATION PURPOSES FROM THE REMOVED IRRIGATION PUMP HOUSE SHOWN ON SHEET C3 AND INSTALL THEM AS SHOWN ON THE ARCHITECTURAL PLUMBING PLANS.

(88) INSTALL 3" DIAMETER SCHEDULE 80 OR SDR21 P.V.C. WATER PIPE AND FITTINGS. CONSTRUCT TRENCH FOR PIPE PER DETAIL "C" SHOWN ON SHEET C8. CONSTRUCT CONCRETE THRUST BLOCKS PER DETAIL "B" SHOWN ON SHEET C9.

(89) INSTALL A 3" DIAMETER REDUCED PRESSURE PRINCIPLE WILKENS MODEL NO. 475 BACKFLOW PREVENTER AS SHOWN ON THE ARCHITECTURAL PLUMBING PLANS

(90) CONNECT TO EXISTING DRINKING FOUNTAIN WITH A NEW ¾" WATER LINE.

(91) INSTALL HOSE BIB AND ¾" WATER PIPING PER SHEET P101C.

A

NOTE:

REFER TO SITE ELECTRICAL DRAWINGS PREPARED BY THE ARCHITECTURAL ELECTRICAL ENGINEER FOR THE LOCATION OF NEW UNDERGROUND CONDUIT, VAULTS/PULL BOXES AND LIGHT POLES. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ALL NEW UTILITY AND STORM DRAIN IMPROVEMENTS AND RESOLVING ALL CONFLICTS WITH EXISTING IMPROVEMENTS. THE NEW UNDERGROUND ELECTRICAL LINES SHOWN ON THESE PLANS ARE CONCEPTUAL ONLY AND ARE FOR THE PURPOSE OF REPLACING THE UNDERGROUND IMPROVEMENTS REMOVED AS A RESULT OF THE GEOTECHNICAL ENGINEER REQUIRED LIMITS OF OVEREXCAVATION AND RECOMPACTION OF LOOSE SOIL AND FOR THE CONSTRUCTION OF THE NEW BUILDINGS AND BLEACHER STRUCTURES.

REGISTERED PROFESSIONAL ENGINEER
MARK S. LAMOUREUX
No. 38382
CIVIL
STATE OF CALIFORNIA

OWNER: EL MONTE UNION HIGH SCHOOL DISTRICT

PROJECT NAME: EL MONTE HIGH SCHOOL BLEACHERS

CLIENT ADDRESS: 3048 TYLER AVENUE, EL MONTE, CA, 91731

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MARK S. LAMOUREUX (R.C.E. 38382) 05-06-16 DATE

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES

A#

AC ________ FLS ______ SS ________

DATE ______________

REVISIONS:

	DESCRIPTION	DATE
A	Addendum A	04-05-2017

DATE ISSUED: 05-06-16

PROJECT NO: 2014-40163

SCALE: As indicated

SHEET NUMBER: C5

SHEET TITLE:

STORM DRAIN AND UTILITY PLAN

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